AMENDMENTS TO THE SPECIFICATION

Page 1, delete the 2nd full paragraph, and replace it with the following new paragraph:

The present invention relates to a method for transferring data between a secure computer, e.g. an error-protected a fail safe stored-program control, and a number of input/output units via a bus control unit connected to the secure computer and a serial bus system. The bus control unit cyclically activates the input/output units connected to the bus system and transfers a multi-bit message to the respective activated input/output unit.

Page 3, delete the first full paragraph.

Page 3, delete the 3rd full paragraph, and replace it with the following new paragraph:

According to FIG 1, a data transmission system includes a secure computer 1 and a number of input/output units 2 to 4. The secure computer 1 is designed in the present case as an error-protected a fail safe stored-program control. A stored-program control of this type is manufactured and sold, e.g. by Siemens AG under the designation SIMATIC S5-95F.

Page 4, delete the 3rd full paragraph, and replace it with the following new paragraph:

The address 7 is incremented by the bus control unit 6 after each data transfer,

until all input/output units 2 to 4 are activated. The input/output units 2 to 4 are then reactivated with the lowest address, and the cycle restarts. Then the input/output units 2 to 4 having the lowest address is activated again, and the cycle restarts.

Page 5, delete the 2nd full paragraph, and replace it with the following new paragraph:

The third and fourth data bits are insignificant for the security unit 4 in the present case. However, further outputs could be activated withby them if necessary.

AMENDMENTS TO THE DRAWINGS

Drawing corrections are attached hereto. Upon approval of the drawing corrections, new Formal Drawings of each of Figures 1-3 will be submitted in connection with the present application.